

# **MP80 Mini GPS Tracker**

## **User Manual V1.0**



### **Preface**

Thank you for choosing the tracker. This manual shows how to operate the device smoothly and correctly. Make sure to read this manual carefully before using this product. Please note that specification and information are subject to changes without prior notice in this manual. Any change will be integrated in the latest release. The manufacturer assumes no responsibility for any errors or omissions in this document.

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## 1. Overview

This device is the latest Mini Personal GPS Tracker. This device can locate and monitor any remote targets by SMS or Internet. It also has two-way voice communication and remote listen-in functions. The unit features excellent and stable work performance. It is used for personal (kids/elderly) tracking and fleet management.

## 2. Application

- GSM 850/900/1800/1900Mhz works worldwide.
- Track by SMS/GPRS
- LBS Position when GPS is unavailable
- Real-time Position inquire
- Report SMS with Google Maps Link
- Two-way Voice Communication
- Listen-in (Voice Monitoring)
- History trace Display
- SOS Alarm
- Geo-fence Alarm
- Low battery Alarm
- Over-speed alarm
- Pedometers: Step, Calories and Distance Counter
- Mileage report
- Long Standby Time for 8 days

## 3. Specifications

Item	Specifications
GSM Frequency	GSM 850/900/1800/1900Mhz
GPS Chip	U-blox7
GPS Sensitivity	-160dBm
Channel	210 Channel, omnibearing tracking
Positioning Accuracy	10 Meters
Hot start	1s on average
Warm start	38s on average
Cold start	42s on average
Working temperature	-25°C to 70°C
Humidity	5%~95% non-concretion
Backup battery	Chargeable 3.7V 700mAh Li-ion battery

Item	Specifications
Charging Voltage	Micro USB interface DC 5V
Weight	40g
Dimension	50*43*16mm
Standby	8 days

## 4. Hardware Description

### 4.1 Appearance



### 4.2 LED Indications

#### 4.2.1 Green LED-GPS indicator

Status	Description
OFF	GPS unavailable
Quick flash(1s/time)	GPS available

#### 4.2.2 Blue LED-GSM indicator

Status	Description
Always ON	No SIM Card or no GSM network
Slow flash (4s/time)	GPRS upload or incoming calls;
Quick flash (8s/time)	SIM card registration Successful or standby mode

#### 4.2.3 Red LED-charge indicator

Status	Description
Always ON	Under charging
Light bright	Charging completed
Flashing	Low battery

#### 4.3 Device Button Instruction

Button	Description
Power Button	<ul style="list-style-type: none"><li>● Press and hold the button (about 3 seconds) until vibrate one time to <b>POWER ON</b>.</li><li>● Press and hold the button (about 3 seconds) until vibrate twice to <b>POWER OFF</b>.</li><li>● Short press(about 1 second) until vibrate one time to <b>HANG UP THE CALL</b>.</li></ul>
SOS Button	<ul style="list-style-type: none"><li>● Short press(about 1 second) until vibrate one times to <b>ANSWER THE CALL</b>.</li><li>● Press and hold the button (about 3 seconds) until vibrate twice, the unit will send position to authorization 3 phone numbers (or upload to server in GPRS Mode), and then will also dial the authorization 3 phone numbers by sequence</li></ul>
Combinations	<ul style="list-style-type: none"><li>● Press and hold the power and SOS button for 3 seconds,the pedometer data will be reset.</li></ul>

### 5. Main Operation and Application

#### 5.1 Set Authorization Phone Number

Instruction format: \*cell phone number \*password\*serial number(1-3)\*\*

For example:\*13900000000\*0000\*1\*\*

Reply:SET USER NUMBER 1 OK.

Note:

- The device defaulted password is 0000.
- The device can only authorized 3 cell phone numbers

#### 5.2 Delete authorization number

Instruction format:\*\*password\*number(1-3)\*\*

For example:\*\*0000\*1\*\*

Reply:DELETE USER NUMBER 1 OK.

### **5.3 Position Mode**

When user want to get accurate positioning information and history trace,it is recommended the GPS mode.When user need general location information and longer standby time,LBS model is better.Users can select the mode via the following two commands:

LBS model:

Format:800+user password

For example:8000000

Reply:SET LOCATION MODE: LBS

GPS mode:

Format:810+user password

For example:8100000

Reply:SET LOCATION MODE:GPS.

### **5.4 Change the password**

Instruction format:777+new password+old password

For example:77712340000

Reply:SET PASSWORD OK.

### **5.5 Single Locating**

Instruction format:666+password

For example:6660000

Description:Send this SMS command to unit,it will reply SMS as follow:

ID:865662000409210

Date:05:36:59 15/09/2014

Fix:B State:SMS

<http://maps.google.com/maps?q=22.63146%2c114.03701>

### **5.6 Calling Switch**

Calling OFF:150+password

For example:1500000

Reply:SET VOICE CALL:OFF

Calling on:151+password

For example:1510000

Reply:SET VOICE CALL: ON

- In case of calling off, when SOS,Geo-fence alarm or over speed alarm occurs, message will be returned instead of call.

### **5.7 SMS Response ON/OFF**

SMS OFF:160+ user password

For example:1600000

Reply:SET SEND SMS:OFF.

SMS ON:161+ user password

For example:1610000

Reply:SET SEND SMS:ON.

Note:If the SMS is turned off during Geo-fences,low battery,SOS,only upload GPRS data and do not reply SMS to user.

## **5.8 Call Restriction Switch**

Call restriction OFF:171+password

For example:1710000

Reply:SET INCOMING CALLS:ON.

Call restriction ON:170+password

For example:1700000

Reply: SET INCOMING CALLS OFF.

Note:

- 170 mode,it can only receive incoming call from 2 authorization numbers.
- 171 mode the device can answer incoming call from any cell phone.

## **5.9 GPRS Upload ON/OFF**

GPRS Upload OFF:180+ user password

For example:1800000

Reply:SET GPRS UPLOAD:OFF

GPRS Upload ON:181+ user password

For example: 1810000

Reply: SET GPRS UPLOAD: ON.

Note:If the GPRS Upload is turned off during Geo-fences,low battery,SOS,only reply SMS and do not upload data to server.

## **5.10 Monitor(Voice Surveillance)**

Disable the monitor format: 000+password

For example: 0000000

Reply: SET VOICE MONITOR:OFF.

Enable monitor format:001+password

For example:0010000

Reply:SET VOICE MONITOR:ON.

Note:Default is MONITOR OFF

## **5.11 Geo-fence**

Instruction format:006+password+G1,IO/I/O,E/W longitude upper limit+N/S latitude upper limit,E/W longitude lower limit+N/S latitude lower limit.

For example:0060000G1,IO,E114.04540N22.59034,E114.05978N22.59797

Reply:SET SQUARE GEO-FENCE G1(IO/I/O) OK..

### **5.11.1 Enable the Geo-fence**

Instruction format:311+password

For example:3110000

Reply:SET ALL SQUARE GEO FENCE: ON.

#### 5.11.2 Disable the Geo-fence

Instruction format:310+password

For example:3100000

Reply:SET SQUARE GEO FENCE: OFF.

#### 5.12 SOS Alarm

When press SOS button for 3 seconds,it will send location to authorization phone number and also upload data to server, the state is "SOS" and also will call the authorization phone number.

#### 5.13 Low battery Alarm

When the device battery is low power,it will send SMS to authorization phone number and upload data to server, the state is:LP.

#### 5.14 Set Time Zone

Instruction format:896+password+ +/-HH:MM

For example:8960000+08:00

Reply:SET TIME ZONE:+08:00

- The default is Greenwich time(UTC).

#### 5.15 Set APN(Access Point Name)

Instruction format 1:#803#user password#APN##

For example: #803#0000#CMNET##

Instruction format 2:#803#password#APN#APN user name# APN password##

Reply: SET GPRS APN OK.

#### 5.16 Set Server IP and PORT

Instruction format:#804#password#IP address(or domain) #port##

Example: #804#0000#192.168.1.1#2014## or #804#0000#www.micgps.com#80##

Reply:SET SERVER IP AND PORT OK.

#### 5.17 Set GPRS Upload Interval Time

Instruction format:#805#password#interval time# upload quantity##

For example:#805#0000#12#5##

Reply:SET GPS PERIODIC UPLOAD OK.

**Note:** interval time define is[10,65535],unit is second.upload quantity is[0,50]. If quantity is 0, it will stop upload and reply: SET GPS PERIODIC UPLOAD OK

#### 5.18 Set LBS upload interval time

Format:#808#password#interval time#upload quantity##

For example:#808#0000#120#1##

Reply:SET LBS PERIODIC UPLOD OK.

**Note:**interval time define is[120,65535],unit is second.upload quantity is[0,50]. If quantity is 0, it will stop upload and reply: SET LBS PERIODIC UPLOAD STOP.



### 5.19 Upload current position data

Format:#806#user password##

For example:#806#0000##

Reply:START GPRS UPLOAD.

Note:the status of upload is:SMS.

### 5.20 Invalid GPS Data Upload

Invalid data upload ON:081+users password

For example:0810000

Reply:INVALID DATA UPLOAD:ON

Invalid data upload OFF:080+user password

For example:0800000

Reply:INVALID DATA UPLOAD:OFF

### 5.21 G-sensor mode

Format:#999#password#mode#parameter1#parameter2##

For example 1:#999#0000#0##

For example 2:#999#0000#1#50#30##

Re:SET GSENSOR MODE:OFF/VIBRATE/PEDOMETER

Description: mode define is [0,2]

0:Disable G-sensor, parameter1 and parameter 2 is omitted;

1:Vibrate Mode,parameter1 is[100,2000],units is mg, parameter2 is[0,100].

2:Pedometer mode, parameter1 is height and define is[100,300], unit is CM,  
parameter2 is for weight and define is[10,150],unit is KG.

### 5.22 Pedometer check

Format:998+password

For example, 9980000

Reply:GSENSOR MODE:PEDOMETER

CURRENT MILEAGE:1.77KM

CURRENT CALORIE:142.57

CURRENT STEPS:2517

TOTAL MILEAGE:5.10KM

TOTAL CALORIE:411.41

TOTAL STEPS:7046

### 5.23 Over-speed alarm

Command:#122#user password#X##

Example:#122#0000#120##

Reply:SET SPEED LIMIT:120

Close command: #122#0000#0##

Note:X is speed value, unit is KM/H definition is [0, 999].

## **5.24 Mileage report**

### **5.24.1 Set report interval time**

Format:#141#password#X##

Reply:SET GPS MILEAGE STATISTICS:ON/OFF

Note:X is the mileages and define is [0,1000]

### **5.24.2 Clear the Mileage**

Format:#142#password#T##

Reply:SET MILEAGE CURRENT/ALL.

Note:T is [0,1].T=0,clear current mileage;T=1,clear total mileage.

### **5.24.3 Check the current mileage**

Format:#143#password##

For example:#143#0000##

Reply: TOTAL GPS MILEAGE:XXX.

CURRENT GPS MILEAGE:XXX.

Note: mileage unit is KM